

[METHOD AND APPARATUS FOR STERILIZING AIR IN LARGE VOLUMES BY RADIATION OF ULTRAVIOLET RAYS]

Abstract

A sterilizing method and apparatus for destroying live microorganisms including viruses in fluent material, such as air and water, in large volume. As a preferred embodiment of this invention, air is drawn, from the inlet 1, through the inlet filter unit 3 and into the circuitous sterilizing chamber 10 that is irradiated by numbers of UV lamp tubes 15, and through the discharging filter unit 13 and then out through outlet 11. A sample window 12 is built in for quality supervision. Visual inspection windows 5 and UV sensors 6 are provided for easy supervision and auto-control. The sterilizing chamber 10 also includes flow resistant reducing feature 7 and internal reflecting surfaces 9.